

SEQUENCE LISTING

<110> Brennan, Miles
Hochgeschwender, Ute

<120> Method for Treatment of Insulin Resistance in Obesity and Diabetes

<130> 3718-7

<150> 60/232,292
<151> 2000-09-13

<160> 8

<170> PatentIn version 3.0

<210> 1
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<221> DOMAIN
<222> (1)..(5)
<223> conserved region

<400> 1

Glu His Phe Arg Trp
1 5

<210> 2
<211> 13
<212> PRT
<213> Homo sapiens

<400> 2

Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val
1 5 10

<210> 3
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa = Nle

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa = Glu or Asp

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa = Phe or D-Phe

<220>
<221> VARIANT
<222> (7)..(7)
<223> Xaa = dibasic amino acid; Lys; Orn; Dbu; or Dpr

<220>
<221> PEPTIDE
<222> (1)..(7)
<223> analog

<400> 3

Xaa Xaa His Xaa Arg Trp Xaa
1 5

<210> 4
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa = Met, Nle, or Cys

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Phe = D-Phe

<220>
<221> PEPTIDE
<222> (1)..(13)
<223> analog

<400> 4

Ser Tyr Ser Xaa Glu His Phe Arg Trp Gly Lys Pro Val
1 5 10

<210> 5
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<221> MOD_RES
<222> (1)..(1)

<223> Nle

<220>
 <221> MOD_RES
 <222> (4)..(4)
 <223> Xaa = D-naphthylalanine

<220>
 <221> PEPTIDE
 <222> (1)..(7)
 <223> analog

<400> 5

Xaa Asp His Xaa Arg Trp Lys
 1 5

<210> 6
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa = Nle

<220>
 <221> MOD_RES
 <222> (4)..(4)
 <223> Phe = D-para-iodo-phenylalanine

<220>
 <221> PEPTIDE
 <222> (1)..(7)
 <223> analog

<400> 6

Xaa Asp His Phe Arg Trp Lys
 1 5

<210> 7
 <211> 845
 <212> DNA
 <213> Mus musculus

<400> 7
 gccaggcttg gctcaactcgc ctggcctccc tacaggcttg catccgggct tgcaaactcg 60
 acctctcgct ggagacgccc gtgttcctg gcaacggaga tgaacagccc ctgactgaaa 120
 acccccccggaa gtacgtcatg ggtcacttcc gctgggaccg cttcgcccc aggaacagca 180

gcagtgctgg cagcgcggcg cagaggcgtg	240
ggagatggca	
gtccagagcc gagtccacgc gagggcaagc	300
gctcctactc catggagcac ttccgctgg	
gcaagccgtt gggcaagaaa cggcgcgg	360
tgaaggtgtt ccccaacgtt gctgagaacg	
agtcggcgg a ggccttccc ctagagttca agagggagct	420
ggaaggcag cggccattag	
gcttggagca ggtcctggag tccgacgcgg	480
agaaggacga cggccctac cgggtggagc	
acttccgctg gagcaacccg cccaaggaca	540
agcgttacgg tggcttcatg acctccgaga	
agagccagac gcccctggtg acgctttca	600
agaacgcacat catcaagaac ggcacaaga	
agggccagtg agggtgcagg ggtcttctca	660
ttccaaggcc ccctccctgc atgggcgagc	
tgtatgacctc tagcctctta gagttacctg	720
tgttaggaaa taaaaccttt cagattcac	
agtcggctct gatcttcaat aaaaactgcg	780
taaataaaagt caaaacacaa ctgtccagtt	
acactatcac gtgaccagat gctagaatgt	840
aaagaaaaca tttctcaacc tccttgc	
cccc agcaa	845

<210> 8
 <211> 235
 <212> PRT
 <213> Mus musculus

<400> 8

Met Pro Arg Phe Cys Tyr Ser Arg Ser Gly Ala	1	Leu Leu Leu Leu Ala	15
5	10	15	
Leu Leu Gln Thr Ser Ile Asp Val Trp Ser Trp Cys	20	Leu Glu Ser Ser	30
	25		
Gln Cys Gln Asp Leu Thr Thr Glu Ser Asn Leu	35	Leu Ala Cys Ile Arg	45
	40		
Ala Cys Lys Leu Asp Leu Ser Leu Glu Thr Pro	50	Val Phe Pro Gly Asn	60
	55		
Gly Asp Glu Gln Pro Leu Thr Glu Asn Pro Arg	65	Lys Tyr Val Met Gly	80
	70		
His Phe Arg Trp Asp Arg Phe Gly Pro Arg Asn	85	Ser Ser Ser Ala Gly	95
	90		
Ser Ala Ala Gln Arg Arg Ala Glu Glu Ala Val	100	Trp Gly Asp Gly	110
	105		
Ser Pro Glu Pro Ser Pro Arg Glu Gly Lys Arg	115	Ser Tyr Ser Met Glu	125
	120		
His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys	130	Arg Arg Pro Val Lys	140
	135		

Val Tyr Pro Asn Val Ala Glu Asn Glu Ser Ala Glu Ala Phe Pro Leu
145 150 155 160

Glu Phe Lys Arg Glu Leu Glu Gly Glu Arg Pro Leu Gly Leu Glu Gln
165 170 175

Val Leu Glu Ser Asp Ala Glu Lys Asp Asp Gly Pro Tyr Arg Val Glu
180 185 190

His Phe Arg Trp Ser Asn Pro Pro Lys Asp Lys Arg Tyr Gly Gly Phe
195 200 205

Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr Leu Phe Lys Asn
210 215 220

Ala Ile Ile Lys Asn Ala His Lys Lys Gly Gln
225 230 235